

Technical data sheet

## IGP-DURA<sup>®</sup>pox 0209A-A0

High gloss epoxy powder coating with a very smooth finish and high resistance to chemicals for interior applications.



### Characteristics

- Gloss
- Smooth finish
- Uni colors
- Indoor quality
- Chemical resistant



### Powder properties

|                          |  |
|--------------------------|--|
| Particle size:           | < 3.94 mil   |
| Solids:                  | > 99 %   |
| Density:                 | 10.85 lb/gal-13.35 lb/gal                                      |
| Suitability for storage: | min. 12 months at ≤ 77 °F<br>in an unopened original container |
| Color tones:             | On request   |



### Processing

#### Pre-treatment

The substrate must be free from oil, grease and oxidation products. The pretreatment depends on the type of substrate and the corrosion protection to be achieved. We recommend the following pretreatments:

#### Aluminum

- Chromating according to DIN EN 12487
- Pre-anodization
- Chrome-free pretreatment according to GSB International and QUALICOAT specifications

#### Steel

- Zinc phosphating
- Iron phosphating

Galvanized steel

- Zinc phosphating
- Chrome (III) passivation
- Chromating according to DIN EN 12487

The suitability of the pretreatment method used is generally to be tested by the coater in advance with appropriate test methods. The minimum requirement for aluminum substrates / galvanized steel components is to carry out a boiling water test with a subsequent cross-cut adhesion and tape test. We refer to the guidelines of the GSB International, Qualicoat and Qualisteelcoat certifications. For further information: see also our special leaflet on pre-treatment (IGP-TI 100).

### Coating devices

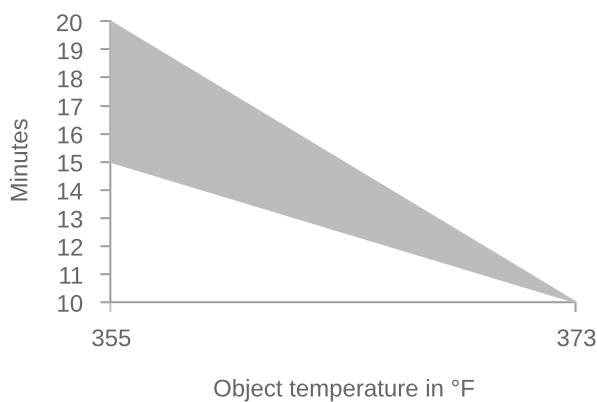
All commercially available electrostatic systems, both corona and tribo charge systems. For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/ EU, EN 50177, DIN EN 16985.

### Recommended film thickness

2.36 mil - 3.15 mil

A homogeneous coating result with textured coatings or article- and color-specific differences in hiding power may require higher coating thicknesses. The corresponding processing guidelines must be observed. For a pre-calculation of the required powder coating quantity, the necessary coating thickness must be determined for each article.

### Curing conditions



| T <sub>Object</sub> | t <sub>min</sub>  | t <sub>max</sub>  |
|---------------------|-------------------|-------------------|
| 356 °F              | 15 minutes        | 20 minutes        |
| <b>374 °F</b>       | <b>10 minutes</b> | <b>10 minutes</b> |

In order to determine ideal curing conditions, we recommend practical trials with the object in question and curing oven.

### Reclaimability

Small portions of recycled powder can be added, automatically if possible, to the fresh powder. Important: Keep overspray to an absolute minimum.



## Film properties

### Tested on

Substrate: Steel, 0.5 mm  
Film thickness: 2.36 mil - 3.15 mil  
Object temperature: 374 °F, 10 min.

## Appearance

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Gloss level 80-110 R'/60° DIN EN ISO 2813 2015-02

## Mechanical tests

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Impact test  $\geq 50$  inchp. ASTM D 2794 1993

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## More information

### Packaging

20 kg cardboard box with inserted antistatic PE liner

### Protection of coated parts

Coated parts should be packed after cooling with suitable materials without plasticizers. They should be stored protected from the weather to avoid the formation of condensation and thus water spots on the coating.

### Cleaning

The coated parts must be cleaned according to the directives RAL-GZ 632 or SZFF 61.01.

### Paint removal and disposal

After use, coated goods should be supplied to the normal recycling process. The disposal methods for sludges or residual powders must be observed in accordance with the local official provisions whilst taking Waste Code "080201 Coating Powder Wastes" in accordance with the European Waste Catalogue into consideration.

This application-related advice is given to the best of our knowledge. However, this information is non-obligatory and does not exempt you from carrying out your own tests. Application, use and processing of these products are beyond our control and are therefore on your responsibility.

Consult the Safety Data Sheet prior to use. Article-specific safety data sheet and comprehensive risk management measures available at: [igp-powder.com](http://igp-powder.com)